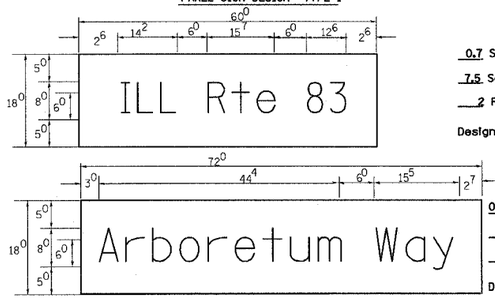
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	392
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99				60881

FINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — DATE — BY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

PANEL SIGN DESIGN TYPE 1

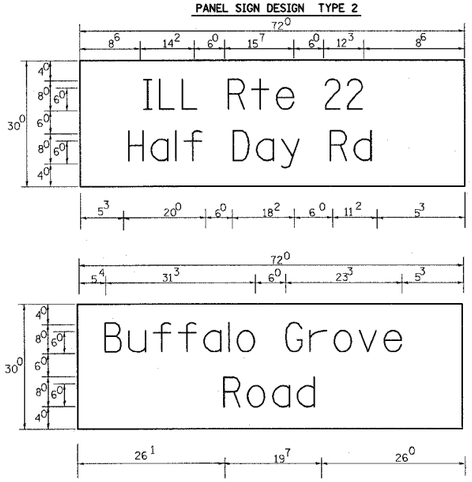


0.7 Sq. M. each
7.5 Sq. Ft. each
2 Required
Design Series D

0.84 Sq. M. each
9 Sq. Ft. each
2 Required
Design Series C

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

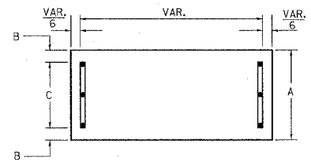
PANEL SIGN DESIGN TYPE 2



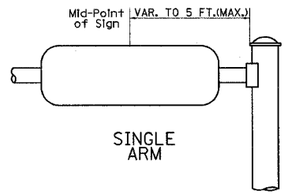
1.40 Sq. M. each
15 Sq. Ft. each
12 Required
Design Series D

1.4 Sq. M. each
15 Sq. Ft. each
2 Required
Design Series C

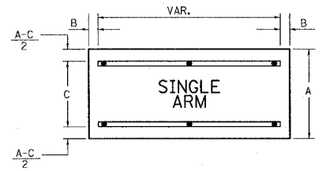
SUPPORTING CHANNELS



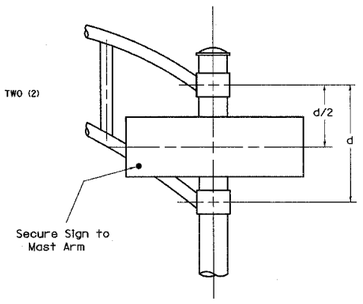
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM
Shall be used. See Note #5.

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
4. ALL BORDERS SHALL BE ¾" WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
   - * A.K.T. CORPORATION, SCHAUMBURG, IL
   - * AMERICAN FABRICATION CO., CHICAGO HEIGHTS, IL
   - * TUCKER COMPANY, INC., WAUWATOSA, WI
   - * WESTERN TRAFFIC CONTROL INC., CICERO, IL

PARTS LISTING:

SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
SIGN SCREWS	¼" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

EXAMPLE, 2③ DENOTES 3/8"

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

FIRST LETTER \ SECOND LETTER	a c d e g o q	b h i k l m n p r u	f w	j	s t	v y	x	z
SERIES	C D	C D	C D	C D	C D	C D	C D	C D
A W X	1² 1⁴	1⁴ 1⁵	1² 1⁴	0⁶ 1⁰	1¹ 1²	1⁴ 0⁶	1⁰ 1¹	1² 1²	1² 1⁴
B	1⁴ 1⁵	2⁰ 2¹	1⁴ 1⁵	1¹ 1²	1⁴ 1⁵	1² 1⁴	1² 1⁴	1⁴ 1⁶	1⁶ 1⁷
C E G	1⁴ 1⁵	2⁰ 2¹	1² 1⁴	0⁶ 1⁰	1² 1⁴	1² 1⁴	1⁴ 1⁵	1⁴ 1⁵	1⁴ 1⁵
D O Q R	1⁴ 1⁵	2⁰ 2¹	1⁴ 1⁵	0⁶ 1⁰	1² 1⁴	1² 1⁴	1⁴ 1⁵	1⁴ 1⁵	1⁴ 1⁵
F	0⁵ 0⁶	1⁴ 1⁵	0⁶ 1⁰	0⁵ 0⁶	0⁶ 1⁰	0⁶ 1⁰	0⁶ 1⁰	1¹ 1²	1² 1²
H I M N	2⁰ 2¹	2² 2⁴	2⁰ 2¹	1⁴ 1⁵	1⁶ 1⁷	1⁶ 1⁷	2⁰ 2¹	2⁰ 2¹	2⁰ 2¹
J U	2⁰ 2¹	2⁰ 2¹	1⁶ 1⁷	1⁴ 1⁵	1⁶ 1⁷	1⁶ 1⁷	1⁶ 1⁷	2⁰ 2¹	2⁰ 2¹
K L	1¹ 1²	1⁶ 1⁷	1¹ 1²	0⁵ 0⁶	1¹ 1²	1¹ 1²	1¹ 1²	1² 1²	1⁴ 1⁴
P	1² 1⁴	1⁴ 1⁵	1² 1⁴	0⁵ 0⁶	1¹ 1²	1¹ 1²	1² 1⁴	1² 1⁴	1⁴ 1⁴
S	1² 1⁴	1⁶ 1⁷	1² 1⁴	0⁶ 1⁰	1² 1⁴	1² 1⁴	1² 1⁴	1² 1⁴	1⁴ 1⁴
T	1¹ 1²	1⁶ 1⁷	0⁶ 1⁰	0⁶ 1⁰	1¹ 1²	1¹ 1²	1¹ 1²	1² 1²	1⁴ 1⁴
V	0⁶ 1⁰	1⁴ 1⁵	1¹ 1²	0⁶ 1⁰	1² 1⁴	1² 1⁴	1² 1⁴	1² 1⁴	1⁴ 1⁴
Y	0⁵ 0⁶	1⁴ 1⁵	0⁶ 1⁰	0⁵ 0⁶	0⁵ 0⁷	0⁵ 0⁶	0⁶ 1⁰	1¹ 1²	1² 1²
Z	1⁶ 1⁷	2² 2⁴	1⁶ 1⁷	1² 1⁴	1⁶ 1⁷	1⁶ 1⁷	1⁶ 1⁷	2⁰ 2¹	2⁰ 2¹

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

FIRST LETTER \ SECOND LETTER	a c d e g o q	b h i k l m n p r u	f w	j	s t	v y	x	z
SERIES	C D	C D	C D	C D	C D	C D	C D	C D
a d h g l j l m n q u	1⁶ 1⁷	2² 2⁴	1⁶ 1⁷	1² 1⁴	1⁴ 1⁵	1⁴ 1⁵	1⁶ 1⁷	1⁶ 1⁷	1⁶ 1⁷
b f k o p s	1² 1⁴	1⁶ 1⁷	1¹ 1²	0⁵ 0⁶	1¹ 1²	1¹ 1²	1² 1⁴	1² 1⁴	1⁴ 1⁴
c e	1² 1⁴	1⁶ 1⁷	1² 1⁴	0⁶ 1⁰	1² 1⁴	1² 1⁴	1² 1⁴	1² 1⁴	1⁴ 1⁴
r	0⁶ 1⁰	1² 1⁴	0⁶ 1⁰	0³ 0³	0⁵ 0⁶	0⁵ 0⁶	0⁶ 1⁰	0⁶ 1⁰	1⁰ 1⁰
t z	1² 1⁴	1⁶ 1⁷	1² 1⁴	0⁶ 1⁰	1¹ 1²	1¹ 1²	1² 1⁴	1² 1⁴	1⁴ 1⁴
v y	1¹ 1²	1⁴ 1⁵	1¹ 1²	0⁵ 0⁶	0⁶ 1⁰	1¹ 1²	1¹ 1²	1¹ 1²	1² 1²
w	1¹ 1²	1⁴ 1⁵	1¹ 1²	0⁵ 0⁶	1¹ 1²	1¹ 1²	1¹ 1²	1² 1²	1⁴ 1⁴
x	1² 1⁴	1⁶ 1⁷	1¹ 1²	0⁵ 0⁶	1¹ 1²	1¹ 1²	1¹ 1²	1² 1²	1⁴ 1⁴

Number To Number
Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER \ SECOND NUMBER	0	1	2	3	4	5	6	7	8	9
SERIES	C D	C D	C D	C D	C D	C D	C D	C D	C D	C D
0 9	1⁶ 1⁷	1⁶ 1⁷	1⁴ 1⁵	1² 1⁴	1⁴ 1⁵	1⁴ 1⁵	1⁶ 1⁷	1² 1⁴	1⁶ 1⁷	1⁶ 1⁷
1	2⁰ 2¹	2⁰ 2¹	2⁰ 2¹	1⁶ 1⁷	1⁴ 1⁵	2⁰ 2¹	2⁰ 2¹	1⁴ 1⁵	2⁰ 2¹	2⁰ 2¹
2 3 4	1⁴ 1⁵	1⁴ 1⁵	1⁴ 1⁵	1² 1⁴	1² 1⁴	1⁴ 1⁵	1⁴ 1⁵	1¹ 1²	1⁶ 1⁷	1⁴ 1⁵
5	1⁴ 1⁵	1⁴ 1⁵	1⁴ 1⁵	1¹ 1²	1¹ 1²	1⁴ 1⁵	1⁴ 1⁵	1¹ 1²	1⁴ 1⁵	1⁴ 1⁵
6	1⁶ 1⁷	1⁴ 1⁵	1⁴ 1⁵	1² 1⁵	1² 1⁴	1⁴ 1⁵	1⁴ 1⁵	1¹ 1²	1⁴ 1⁵	1⁴ 1⁵
7	1² 1⁴	1² 1⁴	1⁴ 1⁵	1² 1⁵	0⁵ 0⁶	1² 1⁴	1⁴ 1⁵	1¹ 1²	1⁴ 1⁵	1² 1⁴
8	1⁶ 1⁷	1⁶ 1⁷	1⁴ 1⁵	1² 1⁵	1² 1⁴	1⁴ 1⁵	1⁶ 1⁷	1² 1⁴	1⁶ 1⁷	1⁴ 1⁵

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS SERIES C	6 INCH UPPER CASE LETTERS SERIES D	8 INCH UPPER CASE LETTERS SERIES C	8 INCH UPPER CASE LETTERS SERIES D	LETTERS	6 INCH LOWER CASE LETTERS SERIES C	6 INCH LOWER CASE LETTERS SERIES D
A	3⁵	5⁰	5⁰	6⁵	a	3⁵	4²
B	3²	4⁰	4³	5³	b	3⁵	4²
C	3²	4⁰	4³	5³	c	3⁵	4¹
D	3²	4⁰	4³	5³	d	3⁵	4²
E	3⁰	3⁵	4⁰	4⁷	e	3⁵	4²
F	3⁰	3⁵	4⁰	4⁷	f	2³	2⁶
G	3²	4⁰	4³	5³	g	3⁵	4²
H	3²	4⁰	4³	5³	h	3⁵	4²
I	0⁷	0⁷	1¹	1²	i	1¹	1¹
J	3⁰	3⁶	4⁰	5⁰	j	2⁰	2²
K	3²	4¹	4³	5⁴	k	3⁵	4²
L	3⁰	3⁵	4⁰	4⁷	l	1¹	1¹
M	3⁷	4⁵	5¹	6¹	m	6⁰	7⁰
N	3²	4⁰	4³	5³	n	3⁵	4²
O	3⁴	4²	4⁵	5⁵	o	3⁶	4³
P	3²	4⁰	4³	5³	p	3⁵	4²
Q	3⁴	4²	4⁵	5⁵	q	3⁵	4²
R	3²	4⁰	4³	5³	r	2⁶	3²
S	3²	4⁰	4³	5³	s	3⁶	4²
T	3⁰	3⁵	4⁰	4⁷	t	2⁷	3²
U	3²	4⁰	4³	5³	u	3⁵	4²
V	3⁵	4⁴	4⁷	6⁰	v	4²	4⁷
W	4⁴	5²	6⁰	7⁰	w	5⁵	6⁴
X	3⁴	4⁰	4⁵	5³	x	4⁴	5¹
Y	3⁶	5⁰	5⁰	6⁶	y	4⁶	5³
Z	3²	4⁰	4³	5³	z	3⁶	4³

NUMBER	6 INCH SERIES C	6 INCH SERIES D	8 INCH SERIES C	8 INCH SERIES D
1	1²	1⁴	1⁵	2⁰
2	3²	4⁰	4³	5³
3	3²	4⁰	4³	5³
4	3⁵	4³	4⁷	5⁷
5	3²	4⁰	4³	5³
6	3²	4⁰	4³	5³
7	3²	4⁰	4³	5³
8	3²	4⁰	4³	5³
9	3²	4⁰	4³	5³
0	3⁴	4²	4⁵	5⁵

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL RTE 22 (FAP 337)
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)
MAST ARM MOUNTED
STREET NAME SIGNS
SHEET 1 OF 3

SCALE: NONE
DATE: 03-22-2004

DRAWN BY: AMB
DESIGNED BY: AMB
CHECKED BY: JPS

P:\00332\Road\22trnsl.dgn 03/23/2004 08:13:57 PM